

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080588 A2

(51) International Patent Classification⁷: **C12Q 1/26**

[GB/GB]; F2G Limited, Lankro Way, Eccles, Manchester, Greater Manchester M30 0BH (GB).

(21) International Application Number:
PCT/GB2005/000623

(74) Agents: **WOODS, Geoffrey, Corlett** et al.; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5JJ (GB).

(22) International Filing Date: 18 February 2005 (18.02.2005)

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0403746.1 19 February 2004 (19.02.2004) GB
0424080.0 29 October 2004 (29.10.2004) GB

(71) Applicant (*for all designated States except US*): **F2G LTD** [GB/GB]; Lankro Way, Eccles, Manchester, Greater Manchester M30 0BH (GB).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LAVENS, Sandra, Elizabeth** [GB/GB]; F2G Limited, Lankro Way, Eccles, Manchester, Greater Manchester M30 0BH (GB). **OLIVER, Jason, David** [GB/GB]; F2G Limited, Lankro Way, Eccles, Manchester, Greater Manchester M30 0BH (GB). **THAIN, John, Leslie** [GB/GB]; F2G Limited, Lankro Way, Eccles, Manchester, Greater Manchester M30 0BH (GB). **TUCKWELL, Daniel, Scott** [GB/GB]; F2G Limited, Lankro Way, Eccles, Manchester, Greater Manchester M30 0BH (GB). **BROMLEY, Michael, John**

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 2031 OXIDOREDUCTASE

(57) Abstract: Method of identifying an anti-fungal agent which targets an essential protein or gene of a fungus comprising contacting a candidate substance with (i) a NADH:flavin oxidoreductase protein which comprises the sequence shown by SEQ ID NO:3, (ii) a NADH:flavin oxidoreductase protein which is a homologue of (i) and which comprises the sequence shown by SEQ ID NO: 8, 12, 14, 19, 24, 42, 44, 83 or 85, (iii) a protein which has 50 % identity with (i) or (ii), (iv) a protein comprising a fragment of (i), (ii) or (iii) which fragment has a length of at least 50 amino acids, (v) a polynucleotide that comprises sequence which encodes (i), (ii), (iii) or (iv), (vi) a polynucleotide comprising sequence which has at least 70 % identity with the coding sequence of (v), and determining whether the candidate substance binds or modulates (i), (ii), (iii), (iv), (v) or (vi), wherein binding or modulation of (i), (ii), (iii), (iv), (v) or (vi) indicates that the candidate substance is an anti-fungal agent.



WO 2005/080588 A2